

SCOTT M. MATHESON
Governor



OIL, GAS, AND MINING BOARD

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NATURAL RESOURCES

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M E M O R A N D U M
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TO: The Board of Oil, Gas, and Mining

FROM: K. Michael Thompson, Engineering Geologist

SUBJECT: Union Carbide, Heccla Shaft - Surety ACT/037/043
Energy Fuels Nuclear, Hillside-Gizmo-Maybe-Vallejo-
Bears Ears - Ammended Surety ACT/037/015

DATE: January 30, 1979

At the December 20, 1978 Board Executive Meeting, the Board concurred with the Division's recommendation that Union Carbide be granted tentative approval for the Heccla Shaft in San Juan County. If no objections of substance are received prior to February 5, 1979, the Division plans to issue final approval conditional upon receipt of the surety. The Division seeks the Board's concurrence for this action and for the amount of the surety. Union Carbide will probably opt for self bonding, however this will be clarified in the near future.

The surety for Energy Fuels Nuclear's Hillside-Gizmo-Maybe-Vallejo-Bears Ears Mine is in error as shown in the Board's agenda. A corrected surety estimate is attatched hereto.

XmP

DIVISION OF OIL, GAS, AND MINING
BOND ESTIMATE

OPERATOR: Union Carbide Corporation
MINE NAME: Hecla Shaft
LOCATION: Sec.'s 5,6& 32, T. 28, 29S., R. 24E.
COUNTY: San Juan
DATE: January 18, 1979

	Operation	Amount	Rate	Cost
A.	CLEAN-UP			
	1. Removal of structures & equipment.	Lump Sum	\$1,000.00	\$ 1,000.00
	2. Removal of trash & debris.	Lump Sum	\$ 500.00	\$ 500.00
	3. Leveling of ancillary facilities pads and access roads.			
B.	REGRADING & RECONTOURING			
	1. Earthwork including haulage and grading of spoils, waste and overburden.	16 hours cat time	\$ 85.00/hr	\$ 1,360.00
	2. Recontouring of highwalls and excavations.	Included in Part B 1		
	3. Spreading of soil or surficial materials.			
C.	STABILIZATION			
	1. Soil preparation, scarification, fertilization, etc.	35 acres	\$ 25.00/ac	\$ 875.00
	2. Seeding or planting.	35 acres	\$ 150.00/ac	\$ 5,250.00
	3. Construction of terraces, water-bars, etc.	Included in Part B 1		
D.	LABOR			
	1. Supervision.	16 hours.	\$ 10.00/hr	\$ 160.00
	2. Labor exclusive of bulldozer time.			
E.	SAFETY			
	1. Erection of fences, portal coverings, etc.	1 vertical shaft	\$1,000.00/ea	\$ 1,000.00
	2. Removal or neutralization of explosive or hazardous materials.	6 vent shafts	\$ 500.00/ea	\$ 3,000.00
		Lump Sum	\$ 100.00	\$ 100.00
F.	MONITORING			
	1. Continuing or periodic monitoring, sampling & testing deemed necessary.	Re seeding 35 acres	\$ 150.00/ac	\$ 5,250.00
G.	OTHER			
	1. Five percent inflation for 15 years. CAF = 2.0789		Subtotal	\$18,495.00
			Inflation	\$19,954.26
			Total	\$38,449.26

DIVISION OF OIL, GAS, AND MINING

BOND ESTIMATE

OPERATOR: Energy Fuels Nuclear, Inc.
 MINE NAME: Hillside, Gizmo, Maybe, Vallejo, Bears Ears
 LOCATION: Township 37 South, Range 16 East
 COUNTY: San Juan County, Utah
 DATE: January 9, 1979 (Amended January 29, 1979)

	Operation	Amount	Rate	Cost
A.	CLEAN-UP			
	1. Removal of structures & equipment.	Lump sum	\$1,000.00	\$ 1,000.00
	2. Removal of trash & debris.	Lump sum	\$1,000.00	\$ 1,000.00
	3. Leveling of ancillary facilities pads and access roads.	Included in B		
B.	REGRAIDING & RECONTOURING			
	1. Earthwork including haulage and grading of spoils, waste and overburden.	10 days Cat time, 10 hrs/day.	\$ 85.00/hr	\$ 8,500.00
	2. Recontouring of highwalls and excavations.	Included above		
	3. Spreading of soil or surficial materials.	Included above		
C.	STABILIZATION			
	1. Soil preparation, scarification, fertilization, etc.	3 acres	\$ 25.00/ac	\$ 75.00
	2. Seeding or planting.	3 acres	\$ 150.00/ac	\$ 450.00
	3. Construction of terraces, waterbars, etc.	10 hours cat time	\$ 85.00/hr	\$ 850.00
D.	LABOR			
	1. Supervision.	100 hours	\$ 10.00/hr	\$ 1,000.00
	2. Labor exclusive of bulldozer time.			
E.	SAFETY			
	1. Erection of fences, portal coverings, etc.	5 portals 1 vent	\$1,000.00/ea	\$ 6,000.00
	2. Removal or neutralization of explosive or hazardous materials.	Lump sum	\$ 100.00	\$ 100.00
F.	MONITORING			
	1. Continuing or periodic monitoring, sampling & testing deemed necessary.	Reseeding 3 acres	\$ 150.00/ac	\$ 450.00
G.	OTHER			
	1. 1.5% inflation for 5 years.	CAF=1.2763	Subtotal	\$19,425.00
			Total	\$ 5,367.00
				\$24,792.00